HU:MGSDVRDLNALLPAVPSLGGGGGCALPVSGAAQWAPVLDFAPPGASAYGSL
MO:MGSDVRDLNALLPAVSSLGGGGGCGLPVSGAAQWAPVLDFAPPGASAYGSL

HU:GGPAPPPAPPPPPPPPPHSFIKQEPSWGGAEPHEEQCLSAFTVHFSGQFTGTAG
MO:GGPAPPPAPPPPPPPPPHSFIKQEPSWGGAEPHEEQCLSAFTLHFSGQFTGTAG

HU:ACRYGPFGPPPPSQASSGQARMFPNAPYLPSCLESQPAIRNQGYSTVTFDGTPS
MO:ACRYGPFGPPPPSQASSGQARMFPNAPYLPSCLESQPTIRNQGYSTVTFDGAPS

HU:YGHTPSHHAAQFPNHSFKHEDPMGQQGSLGEQQYSVPPPVYGCHTPTDSCTG
MO:YGHTPSHHAAQFPNHSFKHEDPMGQQGSLGEQQYSVPPPVYGCHTPTDSCTG

HU:SQALLLRTPYSSDNLYQMTSQLECMTWNQMNLGATLKGVAAGSSSSVKWTE
MO:SQALLLRTPYSSDNLYQMTSQLECMTWNQMNLGATLKGMAAGSSSSVKWTE

HU:GQSNHSTGYESDNHTTPILCGAQYRIHTHGVFRGIQDVRRVPGVAPTLVRSAS
MO:GQSNHGIGYESDNHTAPILCGAQYRIHTHGVFRGIQDVRRVSGVAPTLVRSAS

HU:ETSEKRPFMCAYPGCNKRYFKLSHLQMHSRKHTGEKPYQCDFKDCERRFSR
MO:ETSEKRPFMCAYPGCNKRYFKLSHLQMHSRKHTGEKPYQCDFKDCERRFSR

HU:SDQLKRHQRRHTGVKPFQCKTCQRKFSRSDHLKTHTRTHTGKTSEKPFSCR
MO:SDQLKRHQRRHTGVKPFQCKTCQRKFSRSDHLKTHTRTHTGKTSEKPFSCR

HU:WPSCQKKFARSDELVRHHNMHQRNMTKLQLAL
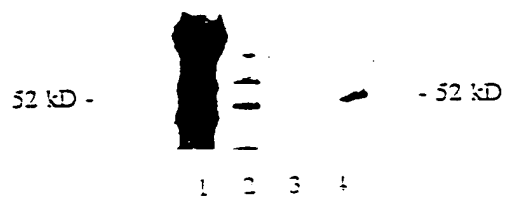MO:WHSCQKKFARSDELVRHHNMHQRNMTKLHVAL
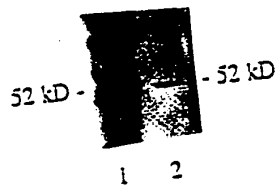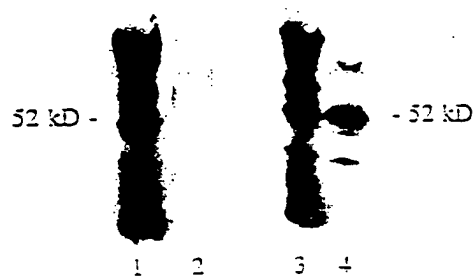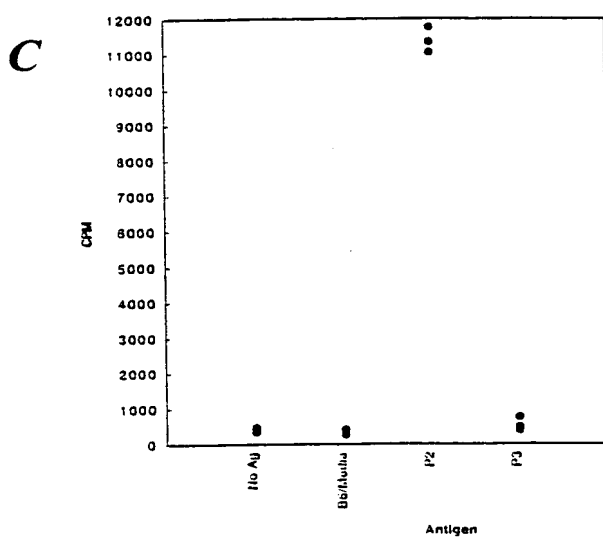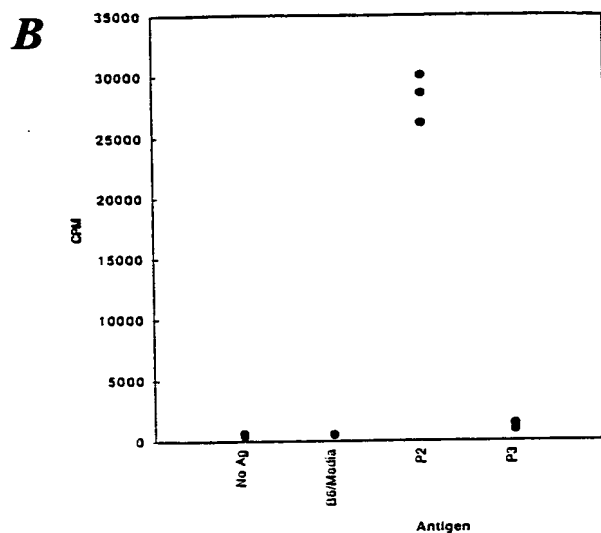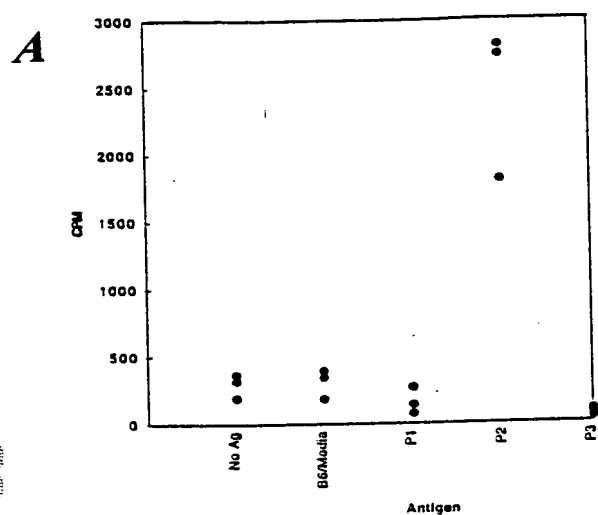
FIG. 1

52 kD -   - 52 kD

1 2 3 4

FIG. 2

52 kD -   - 52 kD

1   2

FIG. 3

52 kD -　　　　　　　　- 52 kD

1　　2　　　3　　4

FIG. 4

A

B

C

FIG. 5A-5C

A

% Lysis

E:T Ratio

LSTRA
E 10
E 10 = P235

B

% Lysis

E:T Ratio

LSTRA
E 10
E 10 + P235
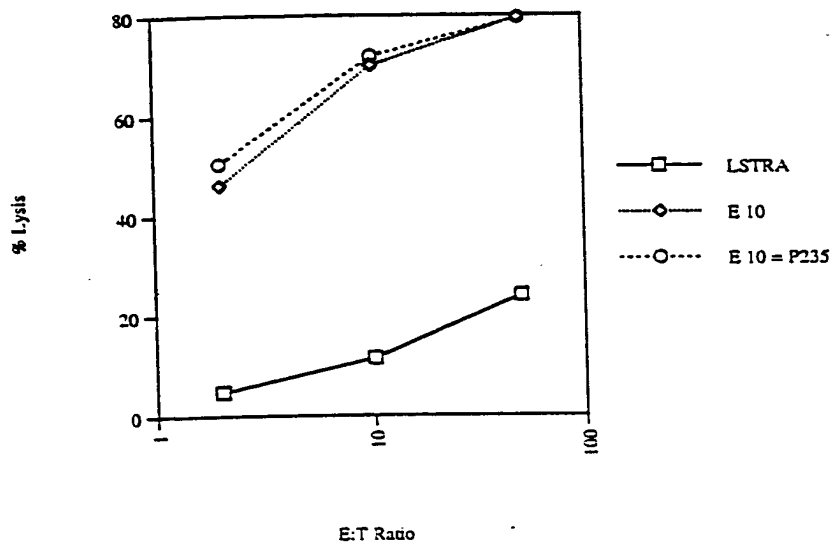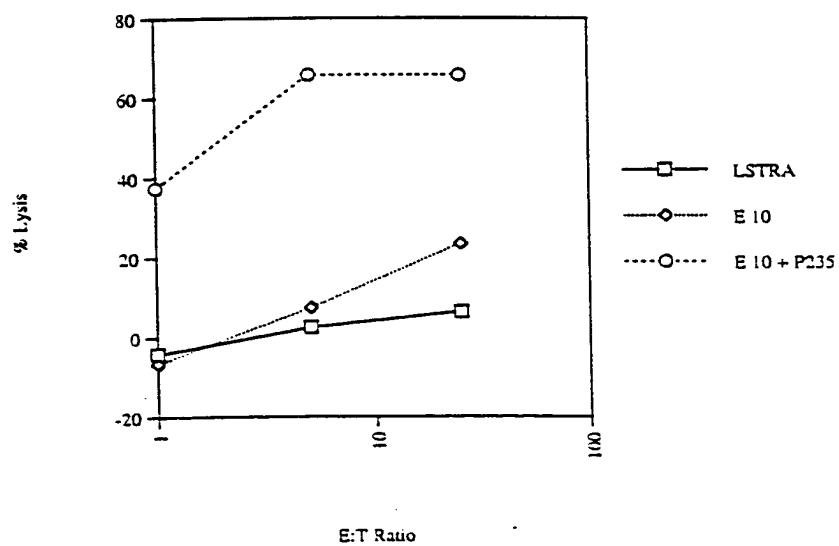
FIG. 6A and 6B
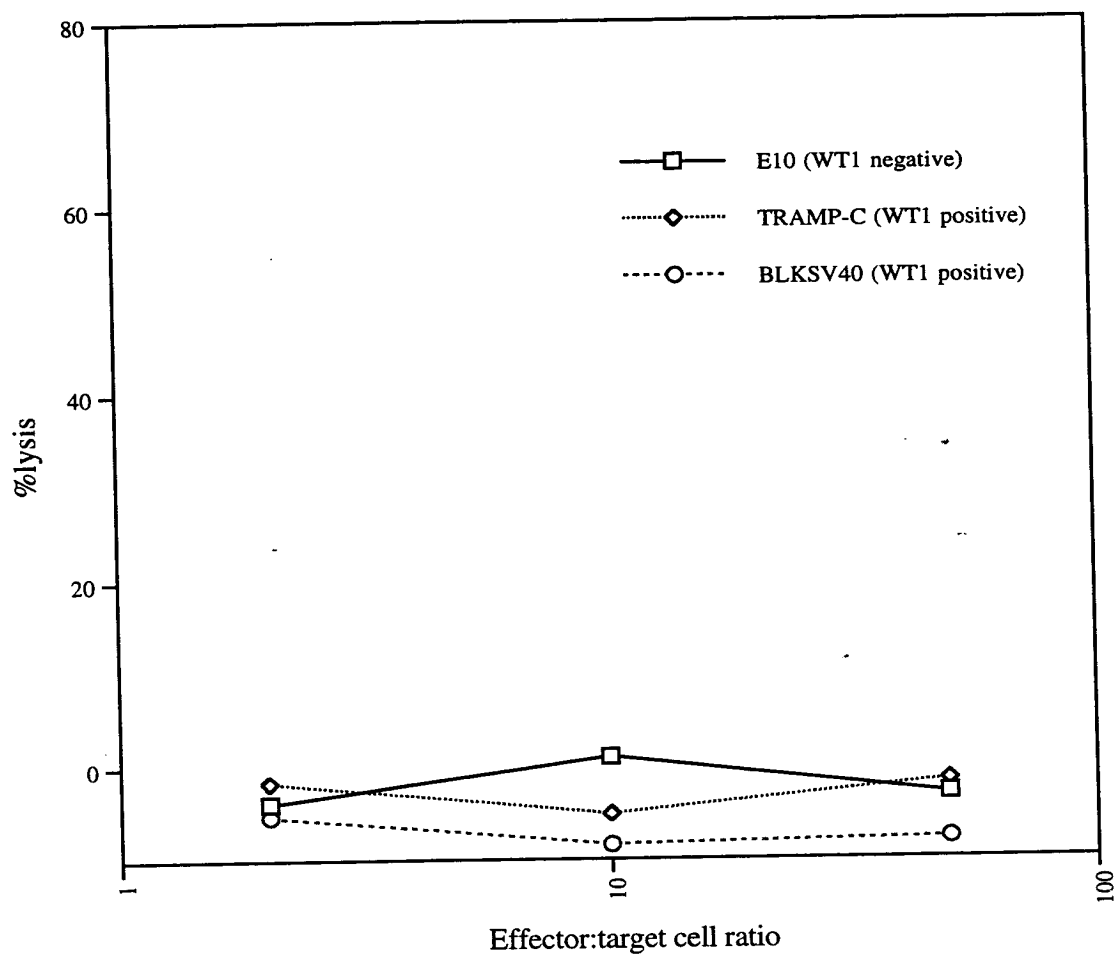
FIG. 7A

FIG. 7B

FIG. 7C
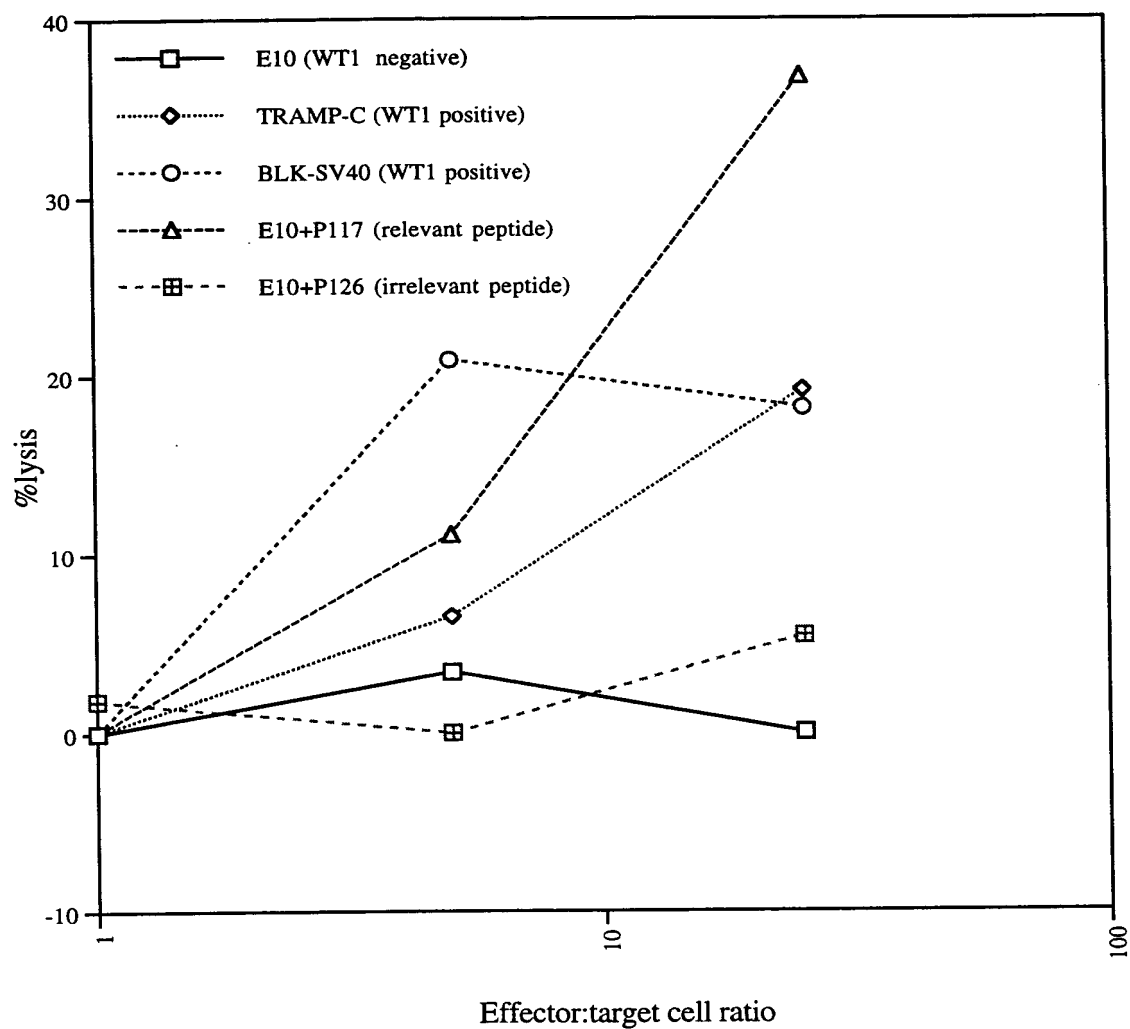
FIG. 7D

```
              5    10   15   20   25   30   35   40   45   50   55   60   65   70   75
MGSDVRDLNALLPAVPSLGGGGGCALPVSGAAQWAPVLDFAPPGASAYGSLGGPAPPPAPPPPPPPPPPHSFIKQE
.....AAAAAAAAAAAAAAAAAA.......AAAAAA.........AAAAAAAAAAAA.....................
.................................RRRR.......................................
............................................................................
............................................................................
............................................................................

             80   85   90   95   100  105  110  115  120  125  130  135  140  145  150
PSWGGAEPHEEQCLSAFTVHFSGQFTGTAGACRYGPFGPPPPSQASSGQARMFPNAPYLPSCLESQPAIRNQGYS
...............AAA......AAAA.........................AAA......AAAAA...........
........................RRRR..........................RRRRR.................
...............................DDDDDDDDD....................................
...........................:................................................

             155  160  165  170  175  180  185  190  195  200  205  210  215  220  225
TVTFDGTPSYGHTPSHHAAQFPNHSFKHEDPMGQQGSLGEQQYSVPPPVYGCHTPTDSCTGSQALLLRTPYSSDN
...............AAAAA.....................................AAAAA..............AA
...............RRRR....................................DDDDDDDDDDDDDDD...
............................................................................
............................................................................

             230  235  240  245  250  255  260  265  270  275  280  285  290  295  300
LYQMTSQLECMTWNQMNLGATLKGVAAGSSSSVKWTEGQSNHSTGYESDNHTTPILCGAQYRIHTHGVFRGIQDV
AAAAAAAA...........AAA.AAA...................................AAAAAAAAAAAA
................RRRRRRRRRR....RRRR...........................RRRR.....
DDDDDD.............DDDDDDDDDD................................ddddd........
............................................................................

             305  310  315  320  325  330  335  340  345  350  355  360  365  370  375
RRVPGVAPTLVRSASETSEKRPFMCAYPGCNKRYFKLSHLQMHSRKHTGEKPYQCDFKDCERRFSRSDQLKRHQR
AAAAA..AAAAAAAAAAA...........................................AAAA.AAAAAAAAA.
....RRRRR.......................RRRR........................................
.......DDDDDD...............................................................
............................................................................

             380  385  390  395  400  405  410  415  420  425  430  435  440  445  450
RHTGVKPFQCKTCQRKFSRSDHLKTHTRTHTGKTSEKPFSCRWPSCQKKFARSDELVRHHNMHQRNMTKLQLAL
............AAAA.AAAA..AA.....AAAA..........AAA....AAAAAAAA...AAA........
....................................................RRRR..RRRR.............
............................................................................
................dddddddddddd................................................
```
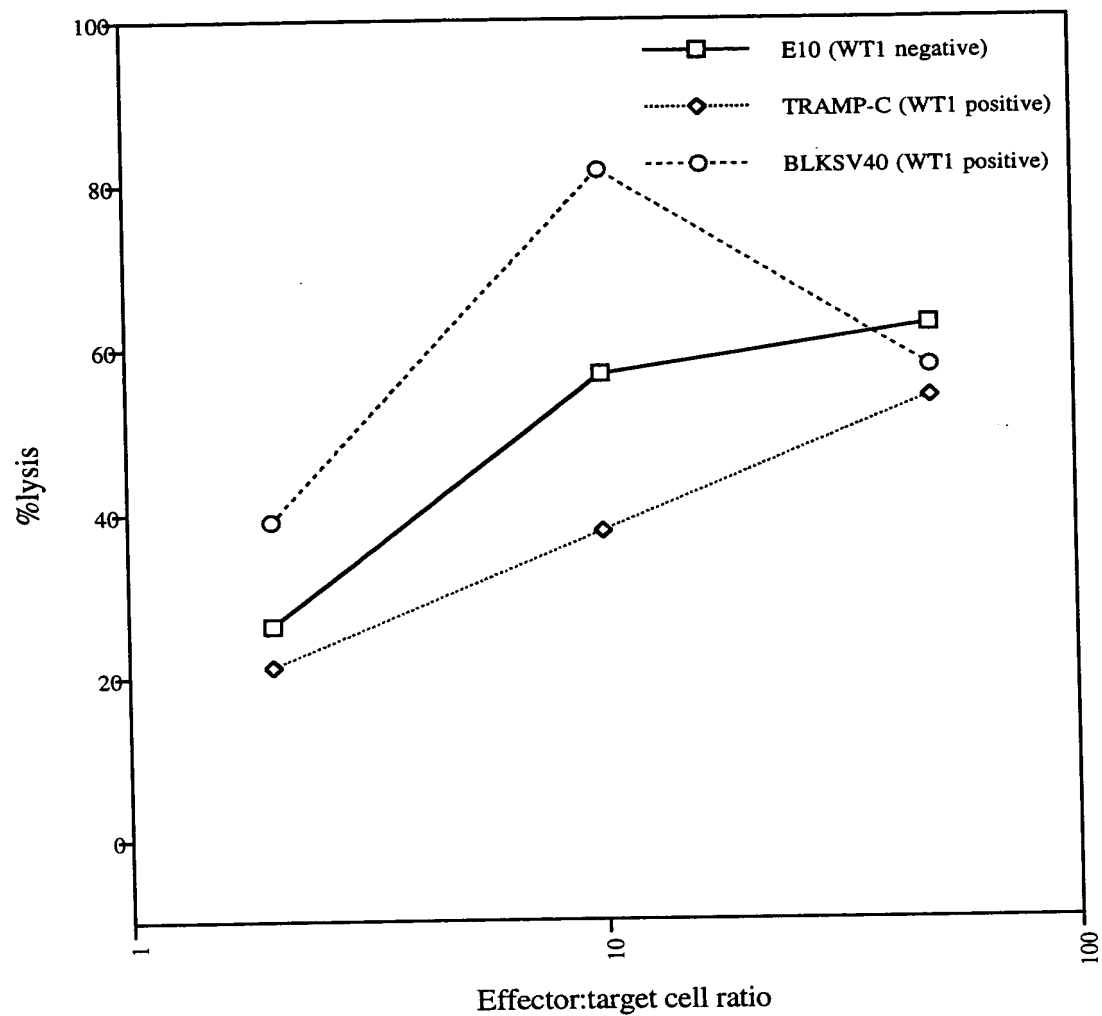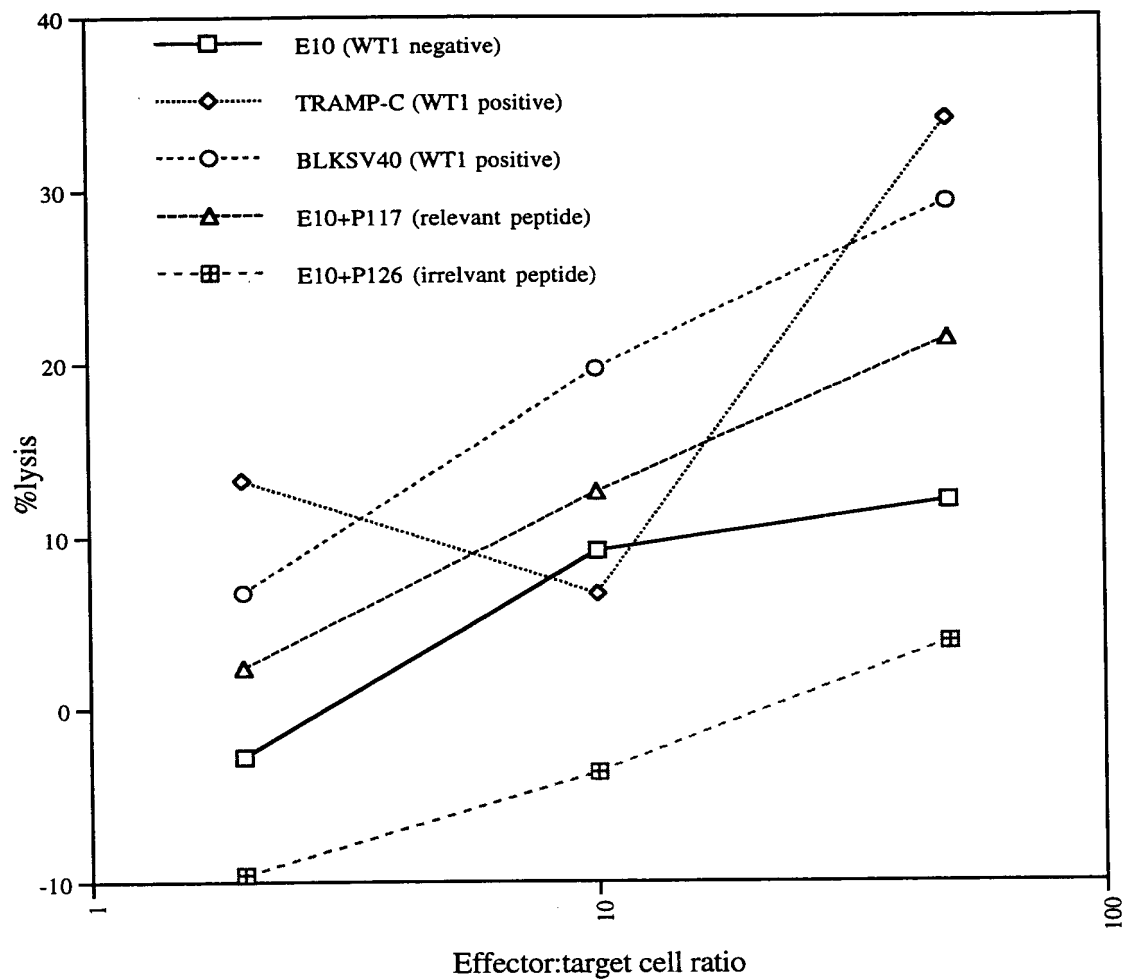
FIG. 8A

```
        5   10   15   20   25   30   35   40   45   50   55   60   65   70   75
MGSDVRDLNALLPAVSSLGGGGGCGLPVSGAAQWAPVLDFAPPGASAYGSLGGPAPPPAPPPPPPPPPPHSFIKQE
.....AAAAAAAAAAAAAAAAAA.......AAAAAA.........AAAAAAAAAAAA...................
...........................................RRRR................................
...............................................................................
...............................................................................
...............................................................................

       80   85   90   95  100  105  110  115  120  125  130  135  140  145  150
PSWGGAEPHEEQCLSAFTLHFSGQFTGTAGACRYGPFGPPPPSQASSGQARMFPNAPYLPSCLESQPTIRNQGYS
........................AAAA......................AAA......AAAAAA...........
..................................RRRR....................RRRRR...............
.................................DDDDDDDDD.....................................
...............................................................................
...............................................................................

      155  160  165  170  175  180  185  190  195  200  205  210  215  220  225
TVTFDGAPSYGHTPSHHAAQFPNHSFKHEDPMGQQGSLGEQQYSVPPPVYGCHTPTDSCTGSQALLLRTPYSSDN
.............AAAAA..........................AAAAAA..............AA
....................RRRR...............................DDDDDDDDDDDDDD...
...............................................................................
...............................................................................

      230  235  240  245  250  255  260  265  270  275  280  285  290  295  300
LYQMTSQLECMTWNQMNLGATLKGMAAGSSSSVKWTEGQSNHGIGYESDNHTAPILCGAQYRIHTHGVFRGIQDV
AAAAAAAA...........AAA.AAA................................AAAAAAAAAAA
.................RRRRRRRRR.....RRRR...........................RRRR.....
DDDDDD.............DDDDDDDDDD.......................................
..................................................................ddddd........

      305  310  315  320  325  330  335  340  345  350  355  360  365  370  375
RRVSGVAPTLVRSASETSEKRPFMCAYPGCNKRYFKLSHLQMHSRKHTGEKPYQCDFKDCERRFSRSDQLKRHQR
AAAAA..AAAAAAAAAAA.........................................AAAA.AAAAAAAAA.
....RRRRR.......................RRRR...........................................
..DDDDDDDDDDD...................................................................
...............................................................................

      380  385  390  395  400  405  410  415  420  425  430  435  440  445  450
RHTGVKPFQCKTCQRKFSRSDHLKTHTRTHTGKTSEKPFSCRWHSCQKKFARSDELVRHHNMHQRNMTKLHVAL
..............AAAA.AAAA..AA.....AAAA............AA....AAAAAAAA...AAAA.......
..........................................................RRRR..RRRR..........
...............................................................................
..................ddddddddddd..................................................
```

FIG. 8B